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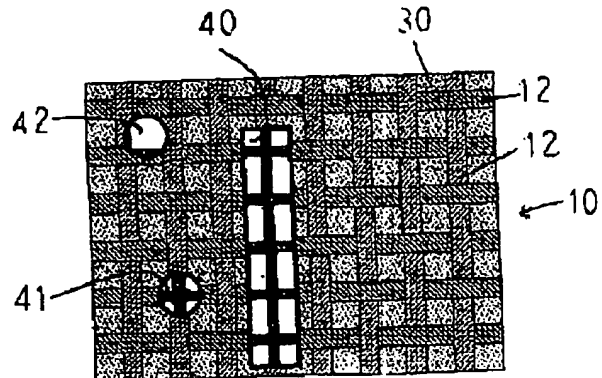
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APPLICANT : TOPPAN PRINTING CO LTD;

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TITLE : SCREEN PRINTING PLATE FOR
SCREEN PRINTING AND ITS
MANUFACTURE



ABSTRACT : PROBLEM TO BE SOLVED: To provide a high-definition printed matter through increasing a positional accuracy by making a screen mesh wire exposed in the opening part of a stencil removable and small in diameter.

SOLUTION: A removable wire 12 is manufactured by providing a 2.5 μm - thick galvanized coating layer as a removable coating layer. In addition, a 400-mesh plain weave screen mesh is stuck to an aluminum plate frame to form a photosensitive emulsion cat. Further, on the screen mesh, a stencil 30 is formed which has 4,041 50 μm dia, circular patterns arranged at equal intervals of 1 mm with opening parts on a square with sides, each of which is 200 mm. The galvanized coating is removed with a 23°C removing liquid for 30 sec., using the stencil 30 as an antiremoving mask to strip the removable coating layer from a core material 14. Thus the removable screen mesh wire 12 which is exposed in the opening part is made small in diameter to manufacture a screen printing plate 10 for screen printing. The removing liquid is formulated by adding 27 cc of sulfuric acid to 200 g of chromic acid anhydride and further, add distilled water to obtain 11 liters of the liquid.

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